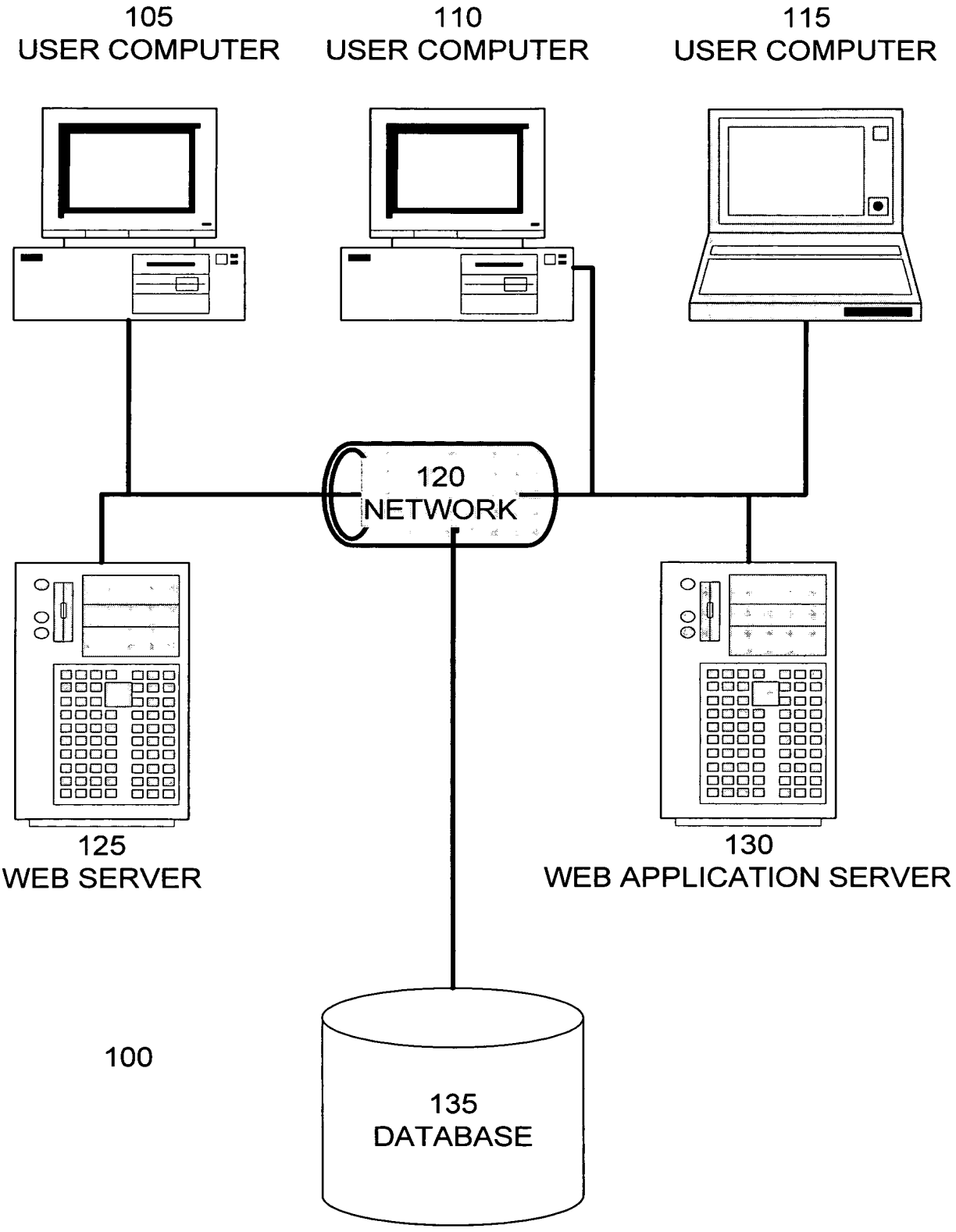
105
USER COMPUTER
110
USER COMPUTER
115
USER COMPUTER
120
NETWORK
125
WEB SERVER
130
WEB APPLICATION SERVER
100
135
DATABASE

FIG. 1

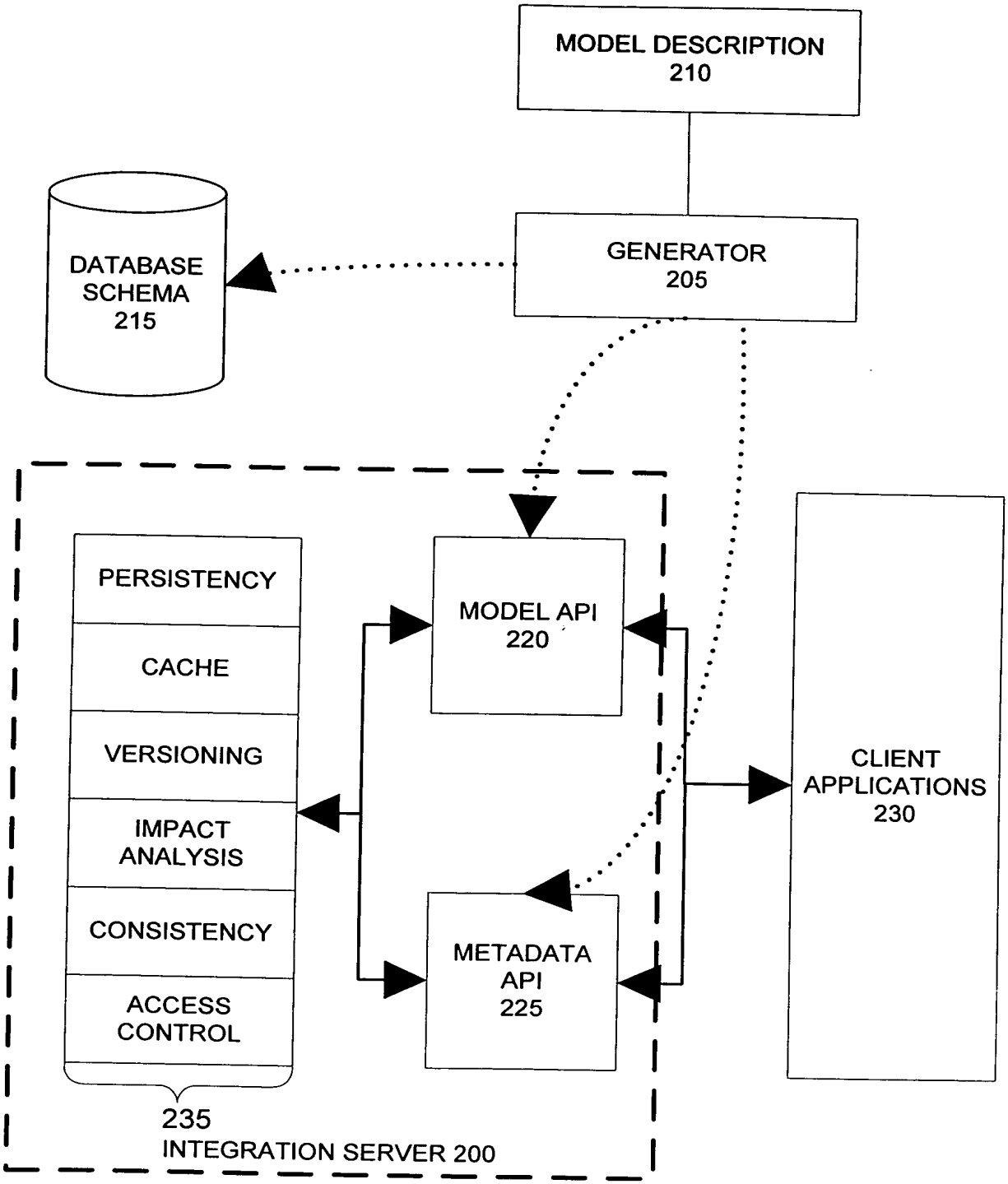
MODEL DESCRIPTION
210
DATABASE
SCHEMA
215
GENERATOR
205
PERSISTENCY
CACHE
VERSIONING
IMPACT
ANALYSIS
CONSISTENCY
ACCESS
CONTROL
MODEL API
220
METADATA
API
225
CLIENT
APPLICATIONS
230
235
INTEGRATION SERVER 200

FIG. 2

| ID | NAME |
|---|---|
| 1 | MAP 1 |
| 2 | MAP 2 |

305

300

| ID | MAP_ID | MAP_SEQ | RULE |
|---|---|---|---|
| 1 | 1 | 10 | CAT |
| 2 | 1 | 20 | ADD |
| 3 | 1 | 30 | COPY |
| 4 | 2 | 10 | COPY |
| 5 | 1 | 25.8 | NEW RULE |

310

FIG. 3

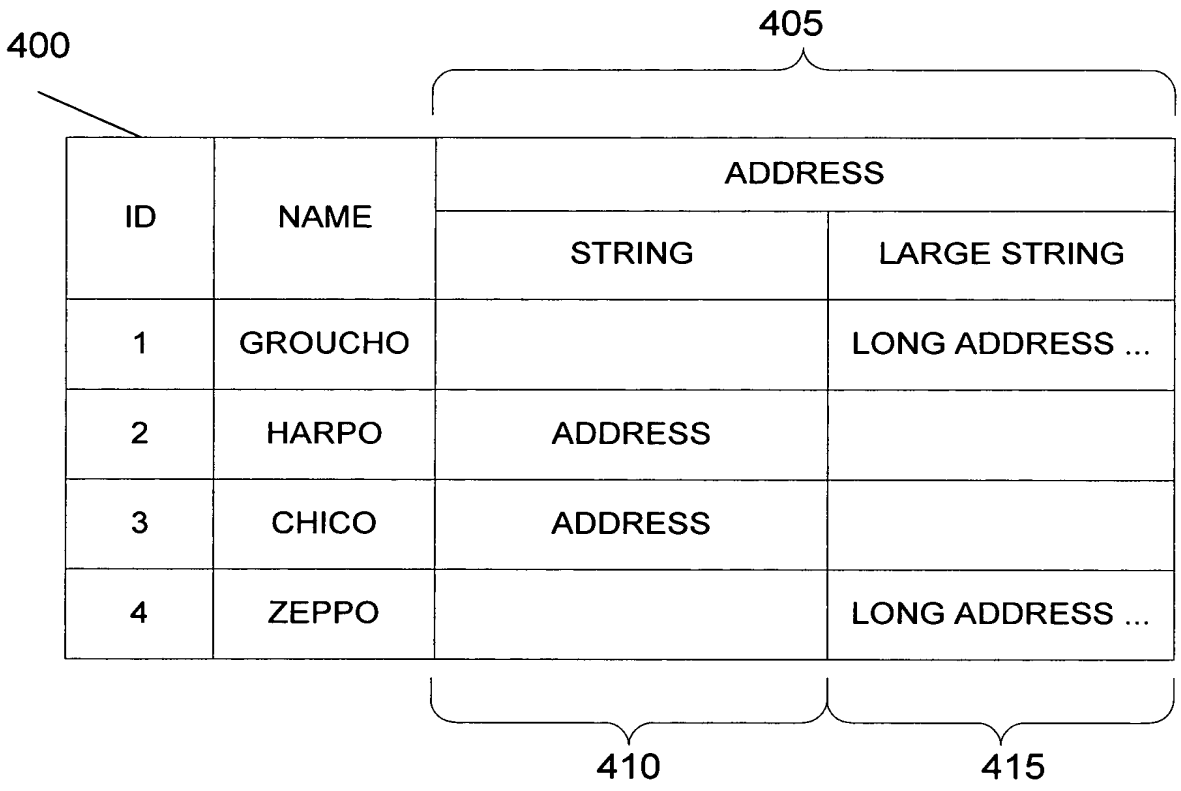
400
405
ID
NAME
ADDRESS
STRING
LARGE STRING
1
GROUCHO
LONG ADDRESS ...
2
HARPO
ADDRESS
3
CHICO
ADDRESS
4
ZEPPO
LONG ADDRESS ...
410
415

FIG. 4

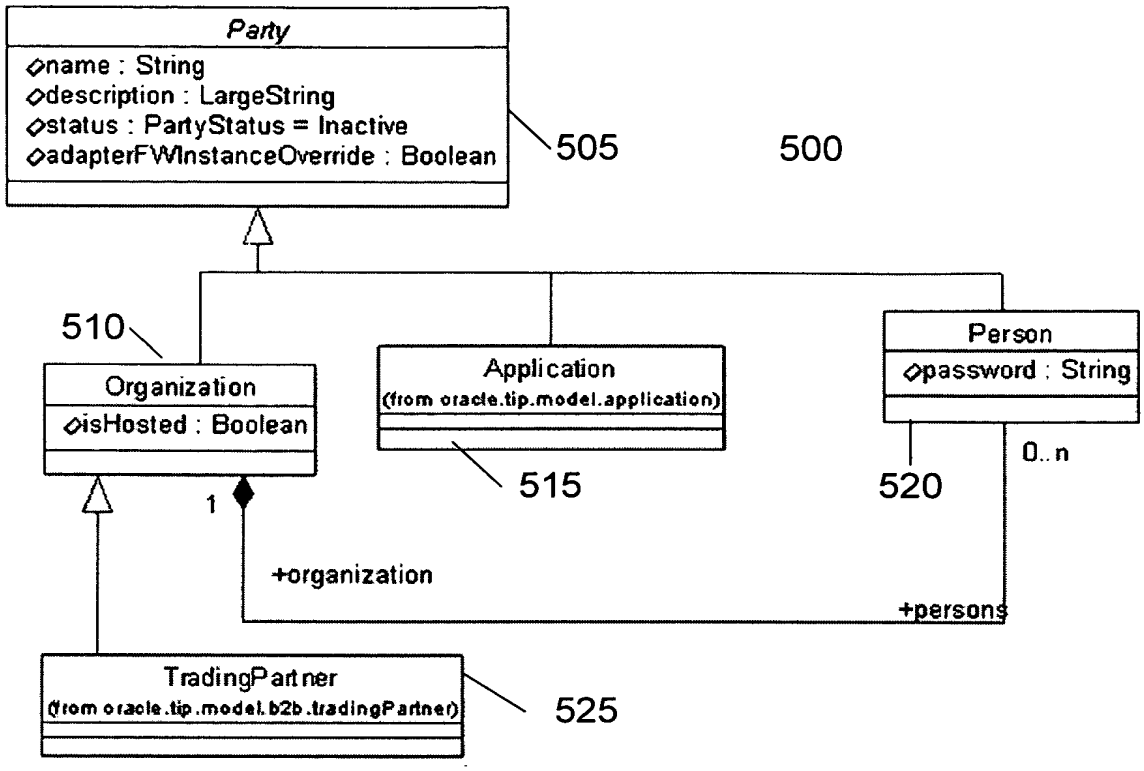


FIG. 5A

535 545 540

| ID | NAME | DESC. | PASSWORD | CLASS_TYPE |
|---|---|---|---|---|
| 1 | AGREEMENT 1 | FOO | | AGREEMENT |
| 2 | BIG CO | GOO | | TRADING PARTNER |
| 3 | HARPO | DEW | DUCK SOUP | PERSON |
| 4 | ORACLE PAYROLL | MOO | | APPLICATION |

530

FIG. 5B

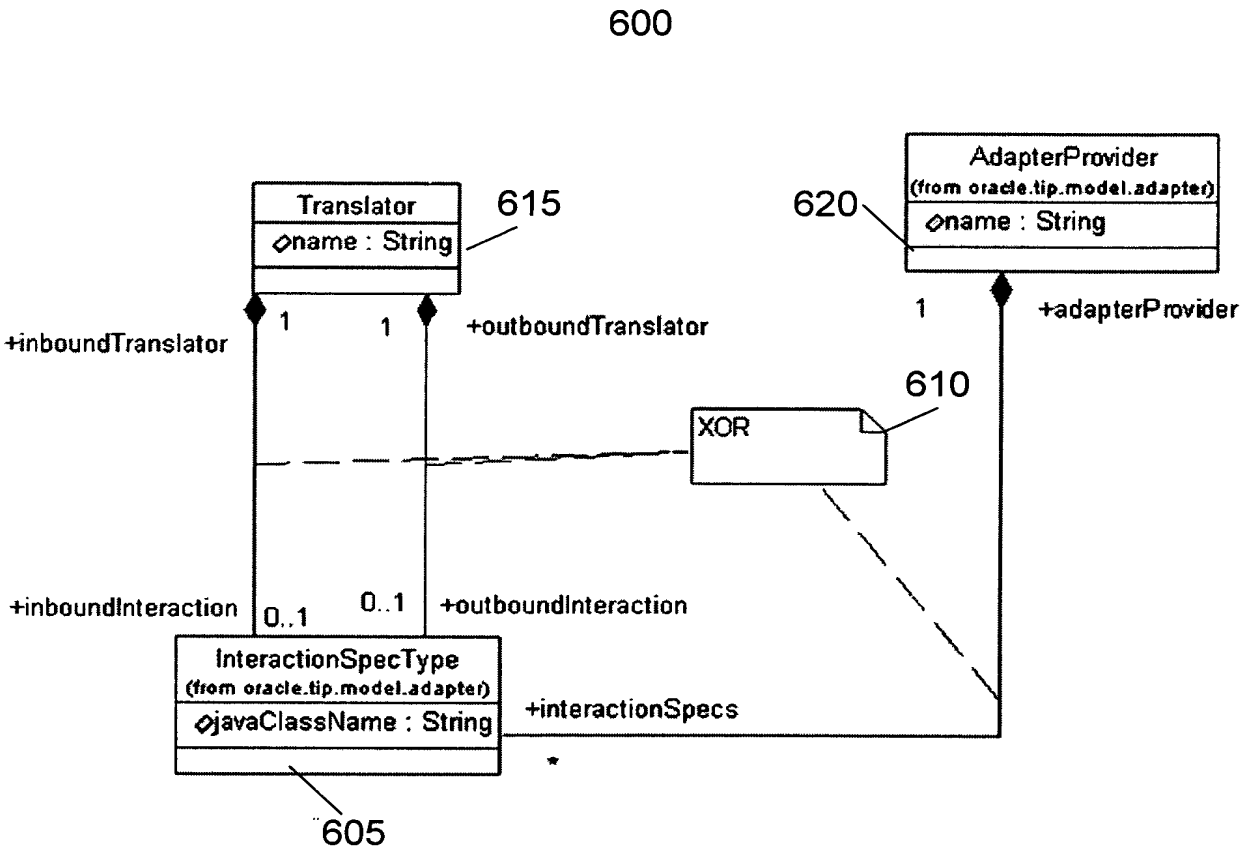
600
AdapterProvider
(from oracle.tip.model.adapter)
name : String
620
Translator
name : String
615
1
1
+inboundTranslator
+outboundTranslator
1
+adapterProvider
610
XOR
+inboundInteraction
0..1
0..1
+outboundInteraction
InteractionSpecType
(from oracle.tip.model.adapter)
javaClassName : String
+interactionSpecs
*
605

FIG. 6

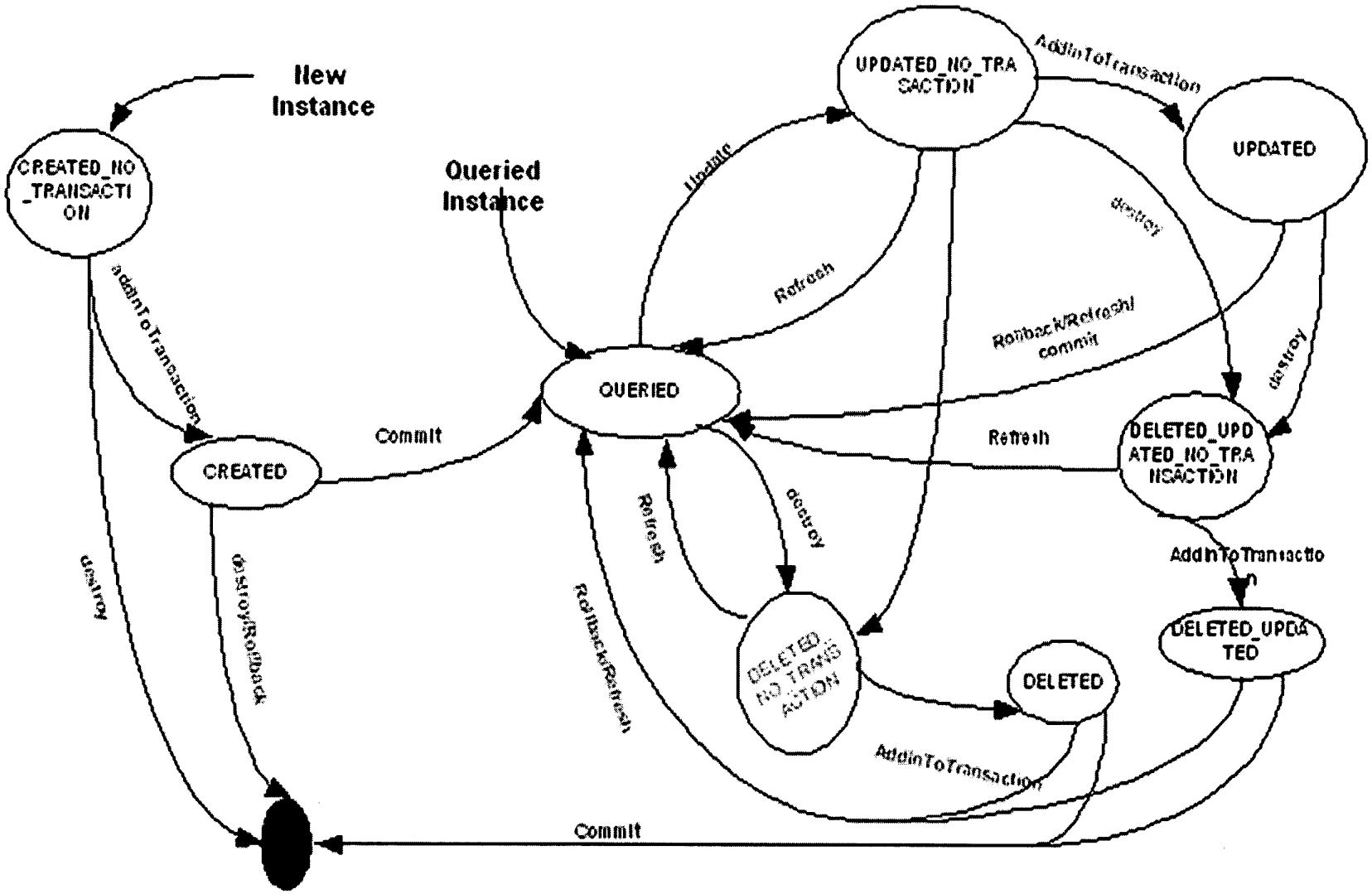
New Instance
Queried Instance
CREATED_NO_TRANSACTION
CREATED
QUERIED
UPDATED_NO_TRANSACTION
UPDATED
DELETED_UPDATED_NO_TRANSACTION
DELETED_UPDATED
DELETED_NO_TRANSACTION
DELETED
addInToTransaction
Commit
Update
Refresh
destroy
Rollback/Refresh/commit
destroy/Rollback
Rollback/Refresh
AddInToTransaction
Commit

FIG. 7

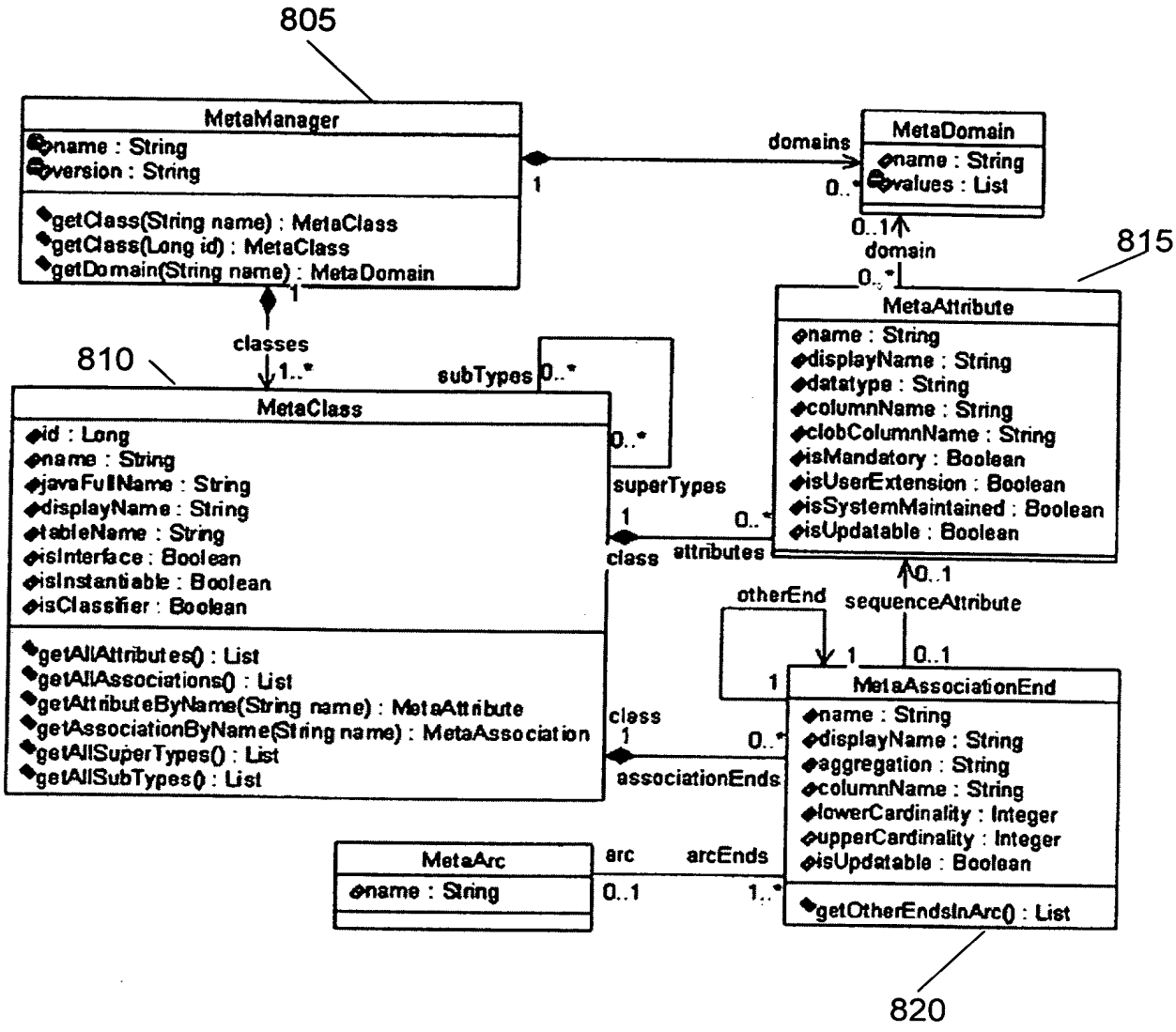
805
MetaManager
name : String
version : String
getClass(String name) : MetaClass
getClass(Long id) : MetaClass
getDomain(String name) : MetaDomain
domains
1
0..*
MetaDomain
name : String
values : List
0..1
domain
0..*
815
MetaAttribute
name : String
displayName : String
datatype : String
columnName : String
clobColumnName : String
isMandatory : Boolean
isUserExtension : Boolean
isSystemMaintained : Boolean
isUpdatable : Boolean
1
classes
1..*
810
subTypes
0..*
0..*
MetaClass
id : Long
name : String
javaFullName : String
displayName : String
tableName : String
isInterface : Boolean
isInstantiable : Boolean
isClassifier : Boolean
getAllAttributes() : List
getAllAssociations() : List
getAttributeByName(String name) : MetaAttribute
getAssociationByName(String name) : MetaAssociation
getAllSuperTypes() : List
getAllSubTypes() : List
superTypes
1
0..*
class
attributes
0..1
otherEnd
sequenceAttribute
1
0..1
1
MetaAssociationEnd
name : String
displayName : String
aggregation : String
columnName : String
lowerCardinality : Integer
upperCardinality : Integer
isUpdatable : Boolean
getOtherEndsInArc() : List
class
1
0..*
associationEnds
MetaArc
name : String
arc
0..1
arcEnds
1..*
820

FIG. 8